WHAT IS CLAIMED IS:

A	A bipolar transistor-based ESD protection structure comprising:
	a semiconductor substrate;

a bipolar transistor disposed in and on the semiconductor substrate, the bipolar transistor having a base region, a collection region and a polysilicon emitter; and

a heat sink region disposed above the semiconductor substrate adjacent to the polysilicon emitter.

2. The bipolar transistor-based ESD protection structure of claim 1, wherein the heat sink region is formed of polysilicon.

3. The bipolar-transistor-based ESD protection structure of claim 1, wherein the heat sink region is formed of a metal selected from the group consisting of copper, aluminum, alloys of aluminum, titanium and combinations thereof.

- 4. The bipolar transistor-based ESD protection structure of claim 1, wherein the heat sink region is a floating heat sink region.
 - 5. The bipolar transistor-based ESD protection structure of claim 4, wherein the heat sink region is disposed within 2 microns of the polysilicon emitter.

6. The bipolar transistor-based ESD protection structure of claim 1 further including:

a metal emitter contact to the polysilicon emitter, and wherein the heat sink region is integrated with the metal emitter contact.

7. The bipolar transistor-based ESD protection structure of claim 1, wherein the bipolar transistor is in a grounded base configuration.

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8. The bipolar transistor-based ESD protection structure of claim 1, wherein the bipolar transistor is in a Zener triggered configuration.

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